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<input type="checkbox"/>	L3	boren.in. and helicobac\$.ti,ab,clm.	13

END OF SEARCH HISTORY

1. [20040265427](#). 06 May 04. 30 Dec 04. Novel non-antibiotic strategy against ogip infections based on an activated cereal product or ferric quinate. [Boren](#), Thomas. 426/52; A23K001/00.

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- ☐ 2. [20040234529](#). 22 Jan 04. 25 Nov 04. [Helicobacter pylori](#) adhesin binding group antigen. [Boren](#), Thomas, et al. 424/164.1; 530/388.4 A61K039/40 C07K016/12.

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- ☐ 3. [20040126811](#). 24 Dec 03. 01 Jul 04. [Helicobacter pylori](#) sialic acid binding adhesin, saba and saba-gene. [Boren](#), Thomas, et al. 435/7.1; C12Q001/68 G01N033/53.

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HELICOBACFER	1
HELICOBACGER	1
HELICOBACIER	4
HELICOBACILLUS	2
(BOREN.IN. AND HELICOBAC\$.TI,AB,CLM.).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	13

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ATTACHING	408638
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RECEPTOR	154496
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 Author: Pride, David Tevis



Degree: Ph.D.  
Year: 2001  
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ISBN: 0-493-51894-0

2/3/109 (Item 1 from file: 654)

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0005885539 \*\*IMAGE Available

Derwent Accession: 1998-052240

Helicobacter pylori adhesin binding group antigen

Inventor: Boren, Thomas, INV  
Arnvist, Anna, INV  
Hammarstrom, Lennart, INV  
Normark, Staffan, INV  
Ilver, Dag, INV

Correspondence Address: BIRCH STEWART KOLASCH & BIRCH, PO BOX 747, FALLS  
CHURCH, VA, 22040-0747, US

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 20040234529	A1	20041125	US 2004761201	20040122
Division	US 6709656			US 99202178	19990210
PCT	WO 97SE1009		19970610		
Priority				SE 962287	19960610
				SE 971014	19970319

Fulltext Word Count: 11480

2/3/110 (Item 2 from file: 654)

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5580750 \*\*IMAGE Available

Derwent Accession: 1998-052240

Utility

C/ Helicobacter pylori adhesin binding group antigen

Inventor: Boren, Thomas, Torelvagen 68 S-906 28, Umea, SE  
Arnvist, Anna, O. Brinkvagen 55 S-903, 21 Umea, SE  
Hammarstrom, Lennart, Avd. for Klinisk Immunologi Huddinge  
Sjukhus S-141, 86 Huddinge, SE  
Normark, Staffan, Vallhallavagen 126 S-1141, 41 Stockholm, SE  
Ilver, Dag, Bankgatan 18 S-902, 35 Umea, SE

Assignee: Unassigned

Unassigned Or Assigned To Individual (Code: 68000)

Examiner: Smith, Lynette R. F. (Art Unit: 165)

Assistant Examiner: Portner, Ginny Allen

Law Firm: Birch, Stewart, Kolasch & Birch, LLP

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6709656	A	20040323	US 99202178	19990210
PCT	WO 9747646		19971218	WO 97SE1009	19970610

371:

102e:

Priority	SE 962287	19960610
	SE 971014	19970319

Fulltext Word Count: 9027

2/3/111 (Item 3 from file: 654)  
 DIALOG(R)File 654:US Pat.Full.  
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4704307 \*\*IMAGE Available  
 Derwent Accession: 1998-052240

Utility

REASSIGNED

C/ Blood group antigen binding protein and corresponding agents  
 ; NUCLEOTIDE SEQUENCES CODING ADHESIN FOR USE IN THE TREATMENT OF  
 GASTROINTESTINAL DISORDERS AND PEPTIC ULCERS

Inventor: Boren, Thomas, Torelv.ang.gen 68, S-906 28 Ume.ang., SE  
 Arnqvist, Anna, Ume.ang., SE  
 Normark, Staffan, Stockholm, SE  
 Ilver, Dag, Ume.ang., SE

Assignee: Boren, Thomas(05), Umea, SE  
 Unassigned Or Assigned To Individual (Code: 68000)

Examiner: Smith, Lynette R. F. (Art Unit: 165)

Assistant Examiner: Portner, Ginny Allen

Law Firm: Birch, Stewart, Kolasch & Birch, LLP

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 6410719	A	20020625	US 9821560	19980210
Continuation	Pending			WO 97SE1009	19970610
Priority				SE 962287	19960610
				SE 971014	19970319

Fulltext Word Count: 4725

2/3/112 (Item 1 from file: 340)  
 DIALOG(R)File 340:CLAIMS(R)/US Patent  
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10727279 2004-0234529 2004-0064345

C/ HELICOBACTER PYLORI ADHESIN BINDING GROUP ANTIGEN

Inventors: Arnqvist Anna (SE); Boren Thomas (SE); Hammarstrom Lennart (SE);  
 Ilver Dag (SE); Normark Staffan (SE)

Assignee: Unassigned Or Assigned To Individual

Assignee Code: 68000

Attorney, Agent or Firm: BIRCH STEWART KOLASCH & BIRCH, PO BOX 747, FALLS  
 CHURCH, VA, 22040-0747, US

	Publication Number	Kind	Date	Application Number	Date
Division of:	US 20040234529	A1	20041125	US 2004761201	20040122
Priority Applic:	US 6709656			US 99202178	19990210
				SE 962287	19960610
				SE 971014	19970319

2/3/113 (Item 2 from file: 340)  
DIALOG(R) File 340:CLAIMS(R)/US Patent  
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04038162 2004-0009584

**C/ HELICOBACTER PYLORI ADHESIN BINDING GROUP ANTIGEN; POLYCLONAL AND/OR  
MONOCLONAL IMMUNOGLOBULIN IMMUNIZATION**

Inventors: Arnqvist Anna (SE); Boren Thomas (SE); Hammarstrom Lennart (SE);  
Ilver Dag (SE); Normark Staffan (SE)

Assignee: Unassigned Or Assigned To Individual

Assignee Code: 68000

Attorney, Agent or Firm: Birch, Stewart, Kolasch & Birch, LLP

	Publication Number	Kind	Date	Application Number	Date
	US 6709656	B1	20040323	US 99202178	19990210
Internat. Convent.:	WO 9747646		19971218	WO 97SE1009	19970610
				Section 371:	19990210
				Section 102(e):	19990210
Priority Applic:				SE 962287	19960610
				SE 971014	19970319
Calculated Expiration:					20170610

2/3/114 (Item 3 from file: 340)  
DIALOG(R) File 340:CLAIMS(R)/US Patent  
(c) 2006 IFI/CLAIMS(R). All rts. reserv.

3708118 0221972

**C/BLOOD GROUP ANTIGEN BINDING PROTEIN AND CORRESPONDING AGENTS; NUCLEOTIDE  
SEQUENCES CODING ADHESIN FOR USE IN THE TREATMENT OF GASTROINTESTINAL  
DISORDERS AND PEPTIC ULCERS**

Inventors: Arnqvist Anna (SE); Boren Thomas (SE); Ilver Dag (SE); Normark  
Staffan (SE)

Assignee: Unassigned Or Assigned To Individual

Assignee Code: 68000

(REASSIGNED - See file 123 for details)

Attorney, Agent or Firm: Birch, Stewart, Kolasch & Birch, LLP

	Publication Number	Kind	Date	Application Number	Date
	US 6410719	B1	20020625	US 9821560	19980210
	(Cited in 001 later patents)				
Continuation of:	Pending			WO 97SE1009	19970610
Priority Applic:				SE 962287	19960610
				SE 971014	19970319
Provisional Applic:				US 60-41040	19970321
Calculated Expiration:					20170610

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11oct06 09:15:21 User228206 Session D2646.7

	\$0.04	0.012	DialUnits	File155
\$0.04	Estimated cost			File155
	\$0.13	0.012	DialUnits	File73
\$0.13	Estimated cost			File73
	\$0.07	0.012	DialUnits	File5
\$0.07	Estimated cost			File5
	\$0.05	0.012	DialUnits	File144

SYSTEM:OS - DIALOG OneSearch  
 File 155:MEDLINE(R) 1950-2006/Oct 10  
     (c) format only 2006 Dialog  
 File 5:Biosis Previews(R) 1969-2006/Oct W1  
     (c) 2006 The Thomson Corporation  
 File 73:EMBASE 1974-2006/Oct 11  
     (c) 2006 Elsevier B.V.  
 File 144:Pascal 1973-2006/Sep W3  
     (c) 2006 INIST/CNRS  
 File 342:Derwent Patents Citation Indx 1978-05/200662  
     (c)2006 The Thomson Corp.  
 File 349:PCT FULLTEXT 1979-2006/UB=20061005UT=20060928  
     (c) 2006 WIPO/Thomson  
 \*File 349: For important information about IPCR/8 and forthcoming  
 changes to the IC= index, see HELP NEWSIPCR.  
 File 324:German Patents Fulltext 1967-200640  
     (c) 2006 Univentio  
 \*File 324: For important information about IPCR/8 and forthcoming  
 changes to the IC= index, see HELP NEWS IPCR.  
 File 340:CLAIMS(R)/US Patent 1950-06/Oct 05  
     (c) 2006 IFI/CLAIMS(R)  
 \*File 340: IPCR/8 classification codes now searchable in 2006 records.  
 For important information about IC=index changes, see HELP NEWSIPCR.  
 File 357:Derwent Biotech Res. 1982-2006/Oct W2  
     (c) 2006 The Thomson Corp.  
 File 654:US Pat.Full. 1976-2006/Oct 10  
     (c) Format only 2006 Dialog  
 \*File 654: IPCR/8 classification codes now searchable in 2006 records.  
 For information about IC= index changes, see HELP NEWSIPCR.

Set Items Description

Cost is in DialUnits

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Terminal set to DLINK

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Set Items Description

S1 188 AU=FALK ? AND (HELICO\$ OR PYLORI OR PYLORIS OR PYLORIDIS OR  
 PYLORUM)

S2 92 RD (unique items)

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2/9/35 (Item 35 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2006 Dialog. All rts. reserv.

10695182 PMID: 8523212

Human milk kappa-casein and inhibition of Helicobacter pylori adhesion  
 to human gastric mucosa.

Stromqvist M; Falk P ; Bergstrom S; Hansson L; Lonnerdal B; Normark S;  
 Hernell O

Symbicom AB, Umea University, Sweden.

Journal of pediatric gastroenterology and nutrition (UNITED STATES) Oct  
 1995, 21 (3) p288-96, ISSN 0277-2116--Print Journal Code: 8211545

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Subfile: INDEX MEDICUS

Readily digested caseins, which account for almost half of the protein content in human milk, are important as nutritional protein for breast-fed infants. It has also been advocated that part of the antimicrobial activity of human milk resides in the caseins, most likely the glycosylated K-casein. To explore this possibility, we purified K-casein from human milk to homogeneity by a two-step size-exclusion chromatography procedure. Purified human K-casein, in contrast to K-casein purified from bovine milk, effectively inhibited the cell lineage-specific adhesion of fluoroisothiocyanate-labeled *Helicobacter pylori* to human gastric surface mucous cells. The inhibitory activity was abolished by metaperiodate oxidation and considerably reduced by preincubation with alpha-L-fucosidase but not with alpha-N-acetylneuraminidase or endo-beta-galactosidase. These results strongly support the view that fucose containing carbohydrate moieties of human K-casein are important for inhibition of *H. pylori* adhesion and, thus, infection. They also suggest that breastfeeding may protect from infection by *H. pylori* during early life and that species-specific glycosylation patterns, as illustrated by human bovine K-casein, partly determine both the narrow host spectrum of this human gastric pathogen and the capacity to resist infection.

Tags: Female

Descriptors: \*Bacterial Adhesion--drug effects--DE; \*Caseins  
--pharmacology--PD; \*Gastric Mucosa--microbiology--MI; \**Helicobacter pylori*  
--physiology--PH; \*Milk, Human--chemistry--CH; Animals; Caseins  
--isolation and purification--IP; Cattle; Chromatography, Gel; Colostrum  
--chemistry--CH; Comparative Study; Humans; Milk--chemistry--CH; Research  
Support, Non-U.S. Gov't

CAS Registry No.: 0 (Caseins)

Record Date Created: 19960125

Record Date Completed: 19960125

2/9/36 (Item 36 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2006 Dialog. All rts. reserv.

10445069 PMID: 7736634

Current status of *Helicobacter pylori* in peptic ulcer disease.

Falk G W

Department of Gastroenterology, Cleveland Clinic Foundation, OH 44195, USA.

Cleveland Clinic journal of medicine (UNITED STATES) Mar-Apr 1995, 62

(2) p95-104, ISSN 0891-1150--Print Journal Code: 8703441

Publishing Model Print

Document type: Journal Article; Review

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Subfile: INDEX MEDICUS

All patients with documented, past or present gastric or duodenal ulcers and who are infected with *Helicobacter pylori* should undergo antimicrobial therapy to eradicate it. Data do not yet support giving antimicrobial therapy to treat nonulcer dyspepsia or to prevent gastric neoplasia. *H. pylori* infection is the main cause of chronic superficial gastritis and is associated with both gastric and duodenal ulcers. However, it has no proven relationship with nonulcer dyspepsia. *H. pylori* infection is currently diagnosed by either endoscopic biopsy or serologic titers for a specific immunoglobulin (IgG) antibody. No noninvasive technique is available to document eradication of infection, although urea breath tests will soon simplify both the diagnosis of infection and documentation of eradication. Eradicating *H. pylori* infection decreases the rate of ulcer

recurrence. Treatment currently involves a 2-week, three-drug regimen of bismuth subsalicylate, tetracycline, and metronidazole, or a two-drug regimen of omeprazole and amoxicillin; other, simpler regimens are under investigation. (54 Refs.)

Descriptors: \*Helicobacter Infections; \*Helicobacter pylori ; \*Peptic Ulcer--microbiology--MI; Anti-Bacterial Agents; Breath Tests; Drug Therapy, Combination--administration and dosage--AD; Endoscopy, Gastrointestinal; Helicobacter Infections--diagnosis--DI; Humans; Peptic Ulcer--drug therapy --DT; Serologic Tests

CAS Registry No.: 0 (Anti-Bacterial Agents)

Record Date Created: 19950607

Record Date Completed: 19950607

2/9/38 (Item 38 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2006 Dialog. All rts. reserv.

10225724 PMID: 7968622

Characterization of microbial host receptors.

Falk P ; Boren T; Normark S

Department of Molecular Biology and Pharmacology, Washington University School of Medicine, St. Louis, Missouri 63110.

Methods in enzymology (UNITED STATES) 1994, 236 p353-74, ISSN 0076-6879--Print Journal Code: 0212271

Contract/Grant No.: 1430653611A1; PHS; TWO4669-02; TW; FIC

Publishing Model Print

Document type: Journal Article; Review

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Subfile: INDEX MEDICUS

(170 Refs.)

Tags: Female

Descriptors: \*Bacterial Adhesion; \*Bacterial Physiology; \*Helicobacter pylori --physiology--PH; \*Membrane Glycoproteins--physiology--PH; \*Receptors, Cell Surface--physiology--PH; Animals; Chromatography, Affinity --methods--MT; Chromatography, High Pressure Liquid--methods--MT; Chromatography, Ion Exchange--methods--MT; Electrophoresis, Polyacrylamide Gel--methods--MT; Epithelium--microbiology--MI; Epithelium--physiology--PH ; Erythrocytes--physiology--PH; Escherichia coli--physiology--PH; Glycolipids--chemistry--CH; Glycolipids--isolation and purification--IP; Glycolipids--physiology--PH; Hemagglutination; Humans; Membrane Glycoproteins--chemistry--CH; Membrane Glycoproteins --isolation and purification--IP; Receptors, Cell Surface--chemistry--CH; Receptors, Cell Surface--isolation and purification--IP; Research Support, Non-U.S. Gov't; Research Support, U.S. Gov't, P.H.S.; Salmonella typhimurium--physiology --PH

CAS Registry No.: 0 (Glycolipids); 0 (Membrane Glycoproteins); 0 (Receptors, Cell Surface)

Record Date Created: 19941206

Record Date Completed: 19941206

2/9/39 (Item 39 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2006 Dialog. All rts. reserv.

10157179 PMID: 8081648

Helicobacter pylori : molecular basis for host recognition and bacterial

**adherence.**

Boren T; Normark S; Falk P  
Dept of Molecular Microbiology, Washington University School of Medicine,  
St. Louis, MO 63110.  
Trends in microbiology (ENGLAND) Jul 1994, 2 (7) p221-8, ISSN  
0966-842X--Print Journal Code: 9310916  
Publishing Model Print  
Document type: Journal Article; Review  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: MEDLINE; Completed  
Subfile: INDEX MEDICUS  
The bacterium *Helicobacter pylori* is tropic for epithelial cells and  
the mucus layer in the stomach lining, and is associated with the  
development of gastritis, ulcers and possibly also gastric malignancies.  
Adherence to the gastric epithelial cells is mediated by fucosylated  
blood-group antigens associated with blood-group O phenotype, which could  
explain the higher prevalence of ulcerative disease in individuals with  
this blood group. (56 Refs.)  
Descriptors: \*Helicobacter Infections--microbiology--MI; \*Helicobacter  
*pylori* --chemistry--CH; \*Receptors, Immunologic--analysis--AN; \*Stomach  
Diseases--microbiology--MI; ABO Blood-Group System--chemistry--CH; Animals;  
Bacterial Adhesion--genetics--GE; Carbohydrate Sequence; Gastric Mucosa  
--chemistry--CH; *Helicobacter pylori* --genetics--GE; *Helicobacter pylori*  
--pathogenicity--PY; Humans; Molecular Sequence Data; Research Support,  
Non-U.S. Gov't  
CAS Registry No.: 0 (ABO Blood-Group System); 0 (Receptors,  
Immunologic); 0 (bacterial adhesin receptor)  
Record Date Created: 19941012  
Record Date Completed: 19941012

2/9/40 (Item 40 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)  
(c) format only 2006 Dialog. All rts. reserv.

09842152 PMID: 8018146  
Attachment of *Helicobacter pylori* to human gastric epithelium mediated  
by blood group antigens.  
Boren T; Falk P; Roth K A; Larson G; Normark S  
Department of Molecular Microbiology, Washington University School of  
Medicine, St. Louis, MO 63110.  
Science (UNITED STATES) Dec 17 1993, 262 (5141) p1892-5, ISSN  
0036-8075--Print Journal Code: 0404511  
Contract/Grant No.: TW04669-02; TW; FIC  
Publishing Model Print; Comment in Science. 1993 Dec 17;262(5141) 1817;  
Comment in PMID 8266067; Comment in Science. 1994 Jun 3;264(5164):1386-8;  
Comment in PMID 8197448  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: MEDLINE; Completed  
Subfile: INDEX MEDICUS  
*Helicobacter pylori* is associated with development of gastritis,  
gastric ulcers, and adenocarcinomas in humans. The Lewis(b) (Le(b)) blood  
group antigen mediates H. *pylori* attachment to human gastric mucosa.  
Soluble glycoproteins presenting the Leb antigen or antibodies to the Leb  
antigen inhibited bacterial binding. Gastric tissue lacking Leb expression  
did not bind H. *pylori*. Bacteria did not bind to Leb antigen substituted  
with a terminal GalNAc alpha 1-3 residue (blood group A determinant),

suggesting that the availability of H. pylori receptors might be reduced in individuals of blood group A and B phenotypes, as compared with blood group O individuals.

Descriptors: \*Gastric Mucosa--microbiology--MI; \*Helicobacter pylori --metabolism--ME; \*Lewis Blood-Group System--metabolism--ME; Antibodies, Monoclonal; Carbohydrate Sequence; Epithelium--microbiology--MI; Fucose --metabolism--ME; Glycoconjugates--chemistry--CH; Glycoconjugates --metabolism--ME; Glycosphingolipids--metabolism--ME; Glycosylation; H-2 Antigens--immunology--IM; Humans; Immunoblotting; Lewis Blood-Group System --chemistry--CH; Lewis Blood-Group System--immunology--IM; Molecular Sequence Data; Oligosaccharides--metabolism--ME; Research Support, Non-U.S. Gov't; Research Support, U.S. Gov't, P.H.S.

CAS Registry No.: 0 (Antibodies, Monoclonal); 0 (Glycoconjugates); 0 (Glycosphingolipids); 0 (H-2 Antigens); 0 (Lewis Blood-Group System); 0 (Oligosaccharides); 3713-31-3 (Fucose)

Record Date Created: 19940121

Record Date Completed: 19940121

2/9/67 (Item 25 from file: 5)

DIALOG(R) File 5:Biosis Previews(R)

(c) 2006 The Thomson Corporation. All rts. reserv.

0009183354 BIOSIS NO.: 199497204639

The Lewis B blood-group antigen is a functional receptor for Helicobacter pylori , mediating the specific attachment to surface mucous cells in the human gastric epithelium

AUTHOR: Boren Thomas (Reprint); Falk Per ; Roth Kevin A; Larson Goran; Normark Staffan (Reprint)

AUTHOR ADDRESS: Dep. Mol. Microbiol., Washington Univ. Sch. Med., St. Louis, MO 63110, USA\*\*USA

JOURNAL: Journal of Cellular Biochemistry Supplement 0 (18 PART A): p70 1994 1994

CONFERENCE/MEETING: Keystone Symposium on Molecular Events in Microbial Pathogenesis Santa Fe, New Mexico, USA January 8-14, 1994; 19940108

ISSN: 0733-1959

DOCUMENT TYPE: Meeting; Meeting Abstract; Meeting Poster

RECORD TYPE: Citation

LANGUAGE: English

DESCRIPTORS:

MAJOR CONCEPTS: Biochemistry and Molecular Biophysics; Cell Biology; Gastroenterology--Human Medicine, Medical Sciences; Immune System--Chemical Coordination and Homeostasis; Infection

BIOSYSTEMATIC NAMES: Aerobic Helical or Vibrioid Gram-Negatives--Eubacteria, Bacteria, Microorganisms; Hominidae--Primates, Mammalia, Vertebrata, Chordata, Animalia

ORGANISMS: aerobic helical or vibrioid gram-negative bacteria (Aerobic Helical or Vibrioid Gram-Negatives); Helicobacter pylori (Aerobic Helical or Vibrioid Gram-Negatives); Hominidae (Hominidae)

COMMON TAXONOMIC TERMS: Bacteria; Eubacteria; Microorganisms; Animals; Chordates; Humans; Mammals; Primates; Vertebrates

MISCELLANEOUS TERMS: ABO BLOOD GROUP MODULATED RECEPTOR AVAILABILITY; MEETING ABSTRACT; MEETING POSTER; MULTIVALENT BACTERIA-RECEPTOR INTERACTION; THERAPY IMPLICATIONS; Meeting Abstract; Meeting Poster

CONCEPT CODES:

00520 General biology - Symposia, transactions and proceedings

02508 Cytology - Human

10064 Biochemistry studies - Proteins, peptides and amino acids

10068 Biochemistry studies - Carbohydrates

10506 Biophysics - Molecular properties and macromolecules

12512 Pathology - Therapy



14006 Digestive system - Pathology  
34506 Immunology - Immunohematology, blood groups  
36002 Medical and clinical microbiology - Bacteriology  
BIOSYSTEMATIC CODES:  
06210 Aerobic Helical or Vibrioid Gram-Negatives  
86215 Hominidae

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11oct06 12:46:55 User228206 Session D2647.4  
\$0.23 0.068 DialUnits File155  
\$1.10 5 Type(s) in Format 9  
\$1.10 5 Types  
\$1.33 Estimated cost File155  
\$0.27 0.045 DialUnits File5  
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\$2.47 Estimated cost File5  
\$0.25 0.023 DialUnits File73  
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\$0.10 0.023 DialUnits File144  
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\$0.11 0.023 DialUnits File349  
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\$0.11 0.023 DialUnits File324  
\$0.11 Estimated cost File324  
\$0.40 0.023 DialUnits File340  
\$0.40 Estimated cost File340  
\$0.50 0.023 DialUnits File357  
\$0.50 Estimated cost File357  
\$0.13 0.023 DialUnits File654  
\$0.13 Estimated cost File654  
OneSearch, 10 files, 0.293 DialUnits FileOS  
\$0.26 TELNET  
\$6.08 Estimated cost this search  
\$6.08 Estimated total session cost 0.293 DialUnits

Logoff: level 05.12.03 D 12:46:55

You are now logged offDialog level 05.12.03D

Reconnected in file OS 11oct06 12:49:33

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SYSTEM:OS - DIALOG OneSearch

File 155:MEDLINE(R) 1950-2006/Oct 10

(c) format only 2006 Dialog

File 5:Biosis Previews(R) 1969-2006/Oct W1

(c) 2006 The Thomson Corporation

File 73:EMBASE 1974-2006/Oct 11

(c) 2006 Elsevier B.V.

File 144:Pascal 1973-2006/Sep W3

(c) 2006 INIST/CNRS

File 342:Derwent Patents Citation Indx 1978-05/200662

(c)2006 The Thomson Corp.

File 349:PCT FULLTEXT 1979-2006/UB=20061005UT=20060928

(c) 2006 WIPO/Thomson

\*File 349: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.

File 324:German Patents Fulltext 1967-200640

(c) 2006 Univentio

\*File 324: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWS IPCR.

File 340:CLAIMS(R)/US Patent 1950-06/Oct 05

(c) 2006 IFI/CLAIMS(R)

\*File 340: IPCR/8 classification codes now searchable in 2006 records. For important information about IC=index changes, see HELP NEWSIPCR.

File 357:Derwent Biotech Res. 1982-2006/Oct W2

(c) 2006 The Thomson Corp.

File 654:US Pat.Full. 1976-2006/Oct 10

(c) Format only 2006 Dialog

\*File 654: IPCR/8 classification codes now searchable in 2006 records. For information about IC= index changes, see HELP NEWSIPCR.

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S1 188 AU=FALK ? AND (HELICO\$ OR PYLORI OR PYLORIS OR PYLORIDIS OR PYLORUM)

S2 92 RD (unique items)

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2/9/69 (Item 27 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2006 The Thomson Corporation. All rts. reserv.

0008603865 BIOSIS NO.: 199345034846

**Pilus and nonpilus bacterial adhesins: Assembly and function in cell recognition**

AUTHOR: Hultgren Scott J; Abraham Soman; Caparon Michael; Falk Per ; St Gemei Joseph W Ii; Normark Staffan

AUTHOR ADDRESS: Dep. Molecular Microbiol., Wash. Univ. Sch. Med., St. Louis, MO 63110-1093, USA\*\*USA

JOURNAL: Cell 73 (5): p887-901 1993

ISSN: 0092-8674

DOCUMENT TYPE: Article; Literature Review

RECORD TYPE: Citation

LANGUAGE: English

DESCRIPTORS:

MAJOR CONCEPTS: Biochemistry and Molecular Biophysics; Blood and Lymphatics--Transport and Circulation; Cell Biology; Development; Immune System--Chemical Coordination and Homeostasis; Infection; Membranes--Cell Biology; Pathology

BIOSYSTEMATIC NAMES: Aerobic Helical or Vibrioid Gram-Negatives--Eubacteria, Bacteria, Microorganisms; Enterobacteriaceae--Facultatively Anaerobic Gram-Negative Rods, Eubacteria, Bacteria, Microorganisms; Gram-Positive Cocci--Eubacteria, Bacteria, Microorganisms; Pasteurellaceae--Facultatively Anaerobic Gram-Negative Rods, Eubacteria, Bacteria, Microorganisms; Vertebrata--Chordata, Animalia

ORGANISMS: aerobic helical or vibrioid gram-negative bacteria (Aerobic Helical or Vibrioid Gram-Negatives); Helicobacter pylori (Aerobic Helical or Vibrioid Gram-Negatives); Escherichia coli (Enterobacteriaceae); gram-positive cocci (Gram-Positive Cocci); Streptococcus pyogenes (Gram-Positive Cocci); Haemophilus influenzae (Pasteurellaceae); Vertebrata (Vertebrata)

COMMON TAXONOMIC TERMS: Bacteria; Eubacteria; Microorganisms; Animals;  
Chordates; Nonhuman Vertebrates; Vertebrates

MISCELLANEOUS TERMS: CELLULAR IMMUNE RESPONSE; HOST-PATHOGEN  
INTERACTION; INFLAMMATORY RESPONSE; TROPISM; Literature Review

CONCEPT CODES:

02506 Cytology - Animal  
10064 Biochemistry studies - Proteins, peptides and amino acids  
10506 Biophysics - Molecular properties and macromolecules  
10508 Biophysics - Membrane phenomena  
12508 Pathology - Inflammation and inflammatory disease  
15004 Blood - Blood cell studies  
15008 Blood - Lymphatic tissue and reticuloendothelial system  
25508 Development and Embryology - Morphogenesis  
30500 Morphology and cytology of bacteria  
34504 Immunology - Bacterial, viral and fungal  
34508 Immunology - Immunopathology, tissue immunology  
36002 Medical and clinical microbiology - Bacteriology

BIOSYSTEMATIC CODES:

06210 Aerobic Helical or Vibrioid Gram-Negatives  
06702 Enterobacteriaceae  
07700 Gram-Positive Cocci  
06703 Pasteurellaceae  
85150 Vertebrata

2/9/71 (Item 29 from file: 5)

DIALOG(R) File 5:Biosis Previews(R)

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0008079320 BIOSIS NO.: 199243047911

CHARACTERIZATION OF A FERRITIN LIKE PROTEIN FROM HELICOBACTER- PYLORI

AUTHOR: FRAZIER B (Reprint); PFEIFER J; FALK P ; WESTBLOM T U; NORMARK S

AUTHOR ADDRESS: WASH UNIV SCH MED, ST LOUIS, MO, USA\*\*USA

JOURNAL: Abstracts of the General Meeting of the American Society for  
Microbiology 92 p131 1992

CONFERENCE/MEETING: 92ND GENERAL MEETING OF THE AMERICAN SOCIETY FOR  
MICROBIOLOGY, NEW ORLEANS, LOUISIANA, USA, MAY 26-30, 1992. ABSTR GEN MEET  
AM SOC MICROBIOL.

ISSN: 1060-2011

DOCUMENT TYPE: Meeting

RECORD TYPE: Citation

LANGUAGE: ENGLISH

DESCRIPTORS: ABSTRACT HUMAN SHEEP GUINEA-PIG ESCHERICHIA-COLI RED BLOOD

CELL HEMAGGLUTINATION SIALIC ACID ADHERING DOMAIN NUCLEOTIDE SEQUENCE

MOLECULAR SEQUENCE DATA MOLECULAR SEQUENCE DATA HOMOLGY

DESCRIPTORS:

MAJOR CONCEPTS: Biochemistry and Molecular Biophysics; Cell Biology;  
Physiology

BIOSYSTEMATIC NAMES: Aerobic Helical or Vibrioid Gram-Negatives--

Eubacteria, Bacteria, Microorganisms; Enterobacteriaceae--Facultatively  
Anaerobic Gram-Negative Rods, Eubacteria, Bacteria, Microorganisms;

Bovidae--Artiodactyla, Mammalia, Vertebrata, Chordata, Animalia;

Hominidae--Primates, Mammalia, Vertebrata, Chordata, Animalia; Caviidae

--Rodentia, Mammalia, Vertebrata, Chordata, Animalia

COMMON TAXONOMIC TERMS: Bacteria; Eubacteria; Microorganisms;

Artiodactyls; Humans; Primates; Animals; Chordates; Mammals; Nonhuman

Vertebrates; Nonhuman Mammals; Rodents; Vertebrates

CONCEPT CODES:

00520 General biology - Symposia, transactions and proceedings

02506 Cytology - Animal

02508 Cytology - Human

10010 Comparative biochemistry  
10062 Biochemistry studies - Nucleic acids, purines and pyrimidines  
10064 Biochemistry studies - Proteins, peptides and amino acids  
10068 Biochemistry studies - Carbohydrates  
10069 Biochemistry studies - Minerals  
10506 Biophysics - Molecular properties and macromolecules  
15004 Blood - Blood cell studies  
31000 Physiology and biochemistry of bacteria  
36002 Medical and clinical microbiology - Bacteriology

BIOSYSTEMATIC CODES:

06210 Aerobic Helical or Vibrioid Gram-Negatives  
06702 Enterobacteriaceae  
85715 Bovidae  
86215 Hominidae  
86300 Caviidae

2/9/72 (Item 30 from file: 5)

DIALOG(R) File 5:Biosis Previews(R)

(c) 2006 The Thomson Corporation. All rts. reserv.

0008079318 BIOSIS NO.: 199243047909

ADHESION OF HELICOBACTER- PYLORI TO HUMAN AND RODENT STOMACH IN-VITRO

AUTHOR: FALK P (Reprint); ROTH K; WESTBLOM T U; GORDON J

AUTHOR ADDRESS: WASH UNIV SCH MED, ST LOUIS, MO, USA\*\*USA

JOURNAL: Abstracts of the General Meeting of the American Society for Microbiology 92 p131 1992

CONFERENCE/MEETING: 92ND GENERAL MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY, NEW ORLEANS, LOUISIANA, USA, MAY 26-30, 1992. ABSTR GEN MEET AM SOC MICROBIOL.

ISSN: 1060-2011

DOCUMENT TYPE: Meeting

RECORD TYPE: Citation

LANGUAGE: ENGLISH

DESCRIPTORS: ABSTRACT RAT MOUSE SQUAMOUS EPITHELIAL CELL BINDING SURFACE

MUCOUS CELL BINDING BACTERIAL CARBOHYDRATE RECEPTOR VIRULENCE FACTOR

DESCRIPTORS:

MAJOR CONCEPTS: Biochemistry and Molecular Biophysics; Cell Biology; Digestive System--Ingestion and Assimilation; Infection; Membranes--Cell Biology; Physiology

BIOSYSTEMATIC NAMES: Aerobic Helical or Vibrioid Gram-Negatives--Eubacteria, Bacteria, Microorganisms; Hominidae--Primates, Mammalia, Vertebrata, Chordata, Animalia; Muridae--Rodentia, Mammalia, Vertebrata, Chordata, Animalia

COMMON TAXONOMIC TERMS: Bacteria; Eubacteria; Microorganisms; Humans; Primates; Animals; Chordates; Mammals; Nonhuman Vertebrates; Nonhuman Mammals; Rodents; Vertebrates

CONCEPT CODES:

00520 General biology - Symposia, transactions and proceedings

02506 Cytology - Animal

02508 Cytology - Human

10068 Biochemistry studies - Carbohydrates

10508 Biophysics - Membrane phenomena

14004 Digestive system - Physiology and biochemistry

30500 Morphology and cytology of bacteria

31000 Physiology and biochemistry of bacteria

36002 Medical and clinical microbiology - Bacteriology

BIOSYSTEMATIC CODES:

06210 Aerobic Helical or Vibrioid Gram-Negatives  
86215 Hominidae  
86375 Muridae

2/9/82 (Item 10 from file: 73)  
DIALOG(R)File 73:EMBASE  
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06049048 EMBASE No: 1995079355

**Expression of a human alpha-1,3/4-fucosyltransferase in the pit cell lineage of FVB/N mouse stomach results in production of Lesup b-containing glycoconjugates: A potential transgenic mouse model for studying Helicobacter pylori infection**

Falk P.G. ; Bry L.; Holgersson J.; Gordon J.I.  
Molecular Biology/Pharmacology Dept., Washington Univ. School of  
Medicine, St. Louis, MO 63110 United States  
Proceedings of the National Academy of Sciences of the United States of  
America ( PROC. NATL. ACAD. SCI. U. S. A. ) (United States) 1995, 92/5  
(1515-1519)  
CODEN: PNASA ISSN: 0027-8424  
DOCUMENT TYPE: Journal; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

*Helicobacter pylori* is a human pathogen associated with the development of gastric and duodenal ulcers and gastric adenocarcinoma. To test the hypothesis that the human Lewis x blood group antigen (Lesup b) functions as a receptor for the bacteria's adhesins and mediates its attachment to gastric pit and surface mucous cells, a human alpha-1,3/4-fucosyltransferase was expressed in these cell lineages in FVB/N transgenic mice. The fucosyltransferase directed production of the Lesup b epitope without any apparent effect on the proliferation and differentiation programs of this lineage. Moreover, clinical isolates of *H. pylori* bound to these cells in transgenic mice but not in their normal littermates. Binding was blocked by pretreatment of the bacteria with soluble Lesup b. This mouse model could be useful for examining the molecular pathogenesis of diseases caused by *H. pylori* infection. Creating novel pathways for production of specific oligosaccharides in selected cell lineages of transgenic animals represents an approach for examining the role of complex carbohydrates in regulating cellular differentiation and host-microbe interactions.

DRUG DESCRIPTORS:

\*fucosyltransferase  
adhesin

MEDICAL DESCRIPTORS:

\*bacterium adherence; \**helicobacter pylori*  
animal experiment; animal model; animal tissue; article; blood group lewis  
system; cell differentiation; mouse; nonhuman; pathogenesis; priority  
journal; transgenic mouse

CAS REGISTRY NO.: 56626-18-7 (fucosyltransferase)

SECTION HEADINGS:

004 Microbiology: Bacteriology, Mycology, Parasitology and Virology  
? logoff hold

2/3/86 (Item 3 from file: 342)  
DIALOG(R)File 342:Derwent Patents Citation Indx  
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01095017 WPI Acc No: 94-025858/03

**Oral formulation for gastric antibacterial treatment - partic. infection caused by helicobacter pylori, comprises active materials, pref. amoxicillin, in continuous release system**

Patent Assignee: (ASTR ) ASTRA AB  
Author (Inventor): FALK K L ; SJOEGREN J A  
Patent (basic)

Patent No Kind Date Examiner Field of Search  
WO 9400112 A1 940106 (BASIC)

Derwent Week (Basic): 9403

Priority Data: SE 921930 (920624)

Applications: AU 9345178 (930611); WO 93SE521 (930611)

Designated States

(National): AT; AU; BB; BG; BR; BY; CA; CH; CZ; DE; DK; ES; FI; GB; HU;  
JP; KP; KR; KZ; LK; LU; MG; MN; MW; NL; NO; NZ; PL; PT; RO; RU; SD; SE  
; SK; UA; VN

(Regional): AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC; NL; OA;  
PT; SE

Derwent Class: B02; B07

Int Pat Class: A61K-009/22

Number of Patents: 002

Number of Countries: 043

Number of Cited Patents: 006

Number of Cited Literature References: 002

Number of Citing Patents: 021

2/3/89 (Item 3 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00251961

AN ORAL FORMULATION FOR GASTRIC ANTIBACTERIAL TREATMENT AS WELL AS A  
PROCESS THEREOF AND THE USE  
FORMULATION ORALE DESTINEE AU TRAITEMENT ANTIBACTERIEN GASTRIQUE, PROCEDE  
DE PREPARATION ET D'UTILISATION DE CETTE FORMULATION

Patent Applicant/Assignee:

AKTIEBOLAGET ASTRA,

Inventor(s):

FALK Karl-Erik Lennart ,

SJOEGREN John Albert,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9400112 A1 19940106

Application: WO 93SE521 19930611 (PCT/WO SE9300521)

Priority Application: SE 921930 19920624

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AT AU BB BG BR BY CA CH CZ DE DK ES FI GB HU JP KP KR KZ LK LU MG MN MW

NL NO NZ PL PT RO RU SD SE SK UA VN AT BE CH DE DK ES FR GB GR IE IT LU

MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 2417

2/3/92 (Item 1 from file: 654)  
DIALOG(R)File 654:US Pat.Full.  
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3839771 \*\*IMAGE Available

Derwent Accession: 1997-258275

Utility

C/ Animal model for helicobacter pylori infection

Inventor: Falk, Per , Sollentuna, SE

Gordon, Jeffrey I., St. Louis, MO  
 Assignee: Washington University(02), St. Louis, MO  
 Washington University St Louis (Code: 90682)  
 Examiner: Campell, Bruce R. (Art Unit: 184)  
 Law Firm: Arnall Golden & Gregory

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent	US 5625124	A	19970429	US 94273411	19940711

Fulltext Word Count: 7456

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  OneSearch, 10 files, 0.399 DialUnits FileOS
$0.26 TELNET
$22.28 Estimated cost this search
$22.28 Estimated total session cost 0.399 DialUnits

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Logoff: level 05.12.03 D 12:49:37

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891 Fucose 2' and 3' Helicobacter pylori (e.g., Falk et al. (1993) Proc. fucosides (e.g., adhesion to gastric cells) Nat'l. Acad. Sci. USA Lewis.sup.y, Lewis.sup.b 90: 2035 GalNAc



Other Reference Publication (20):

Evans et al, Journal of Bacteriology, Feb. 1993, p. 674-683, "Cloning, nucleotide Sequence, and Expression of a Gene Encoding an Adhesin Subunit Protein of Helicobacter pylori".

Other Reference Publication (21):

Wasdstrom et al., European Journal of Gastroenterology & Hepatology, 1993, vol. 5 (suppl. 2), "Helicobacter pylori adhesins".

## CLAIMS:

Enroth et al. (1997) "Diagnostic Accuracy of a Rapid Whole-Blood Test for Detection of Helicobacter pylori." J. Clin. Micro. 35: 2695-97.

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Hackelsberger et al. (1998) "Performance of a Rapid Whole Blood Test for Helicobacter pylori in Primary Care: A German Multicenter Study." Helicobacter 3: 179-183.

Other Reference Publication (16):

Huang et al. (1998) "Meta-analysis of the Relationship Between Helicobacter pylori Seropositivity and Gastric Cancer." Gastroenterology 114: 1169-79.

Other Reference Publication (18):

Leung et al. (1998) "Comparison of Two Rapid Whole-Blood Tests for Helicobacter pylori Infection in Chinese Patients." J. Clin. Micro. 36:3441-3442.

Other Reference Publication (27):

Stone et al. (1997) "Near patient testing for Helicobacter pylori: a detailed evaluation of the Cortecs Helisal Rapid Blood test." Eur. J. of Gastroenterol. & Hepatology 9: 257-260.